

PETER CUNHA

Los Angeles, CA · peter@alumni.purdue.edu

EDUCATION

Purdue University

Bachelor of Science in Computer Science

West Lafayette, IN

2016 - 2022

WORK EXPERIENCE

AT&T

Software Engineer

El Segundo, CA

2019 - 2020

- Developed backend infrastructure for HBO MAX. Improved application reliability and uptime, created metrics monitoring dashboards, wrote backend code. Go, Kubernetes, Kafka, Prometheus, Grafana

Northrop Grumman

Software Engineer

Space Park, CA

2015 - 2019

- Worked on the Kestrel Ground Systems team to build a fully featured web dashboard for visualizing live mission data. Live satellite telemetry graphs, command & control capabilities, and an authentication & user management system. Node.js, MongoDB, D3.js, Angular. (2019)
- Improved on satellite ground system software by adding load balancing, service discovery, and fault tolerance in C++. Built a Web UI for monitoring and controlling satellite ground systems using Node.js and Angular. (2018)
- Worked with a team of talented developers to build a satellite ground system in C++ and Java. Capabilities included decoding RF signals from long-range antennas, translating binary streams into meaningful data, and distributing that data to many systems using ActiveMQ. (2017)
- Developed and maintained an HR software tool for managing incoming and existing employees. Added features, fixed bugs, and wrote documentation. PHP, MySQL, JavaScript. (2016)

SKILLS

Programming Languages: Java, C++, Javascript, Go, Python, Angular, React, Node.js, PHP, CSS

Technologies: Docker, Kubernetes, Apache, Nginx, Jenkins, PostgreSQL, MongoDB

Cloud: Amazon Web Services, Google Cloud Platform, Digital Ocean

Other: Agile, CI/CD, Design Patterns, Git

LINKS

Github

My open source projects

<https://github.com/petercunha>

Leetcode

My competitive programming profile

<https://leetcode.com/sunlit>

Personal Website

My personal website with more info about me

<https://petercunha.com>

ACHIEVEMENTS

Cyberpatriot National Finalist

Team ranked 6th place in the nation for Cyberpatriot, a national cyber defense competition.

U.S. Air Force

Amazon.com Security Researcher

Discovered a serious vulnerability in Amazon.com's web interface, allowing for the account theft of anyone who clicked on a malicious link. Bug was reported to Amazon so it could be remediated.

Amazon.com, Inc.

Cryptography Certification

Completed Stanford University's online Cryptography program through Coursera.

Stanford University